

CONTENTS:

1. Physics

2. Earth Science

Back to School Night 2025

Mr. Porter

Physics 2025-26

Think about

- [x] Communication → Parent Square
- [x] Fix slides with dates and information
- [] Update photos

About Me..

- 14th Year at Schodack
- Married and we have an 2.5 year old son
- Avid Cyclist
 - CBRC Board Member
- Like to vacation in Maine 🏜️🌲LOBSTER





Questions for you

On an index card:

0. Your Name & Your Child's Name & Class
1. What is your proudest moment as parent/guardian in regards to the child I am teaching?
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Tell me and I forget. Teach me and I remember. Involve me and I learn.

Ben Franklin

Teaching Physics

Modeling Instruction

Paradigm Lab - Model Development



Model Deployment & Problem Solving



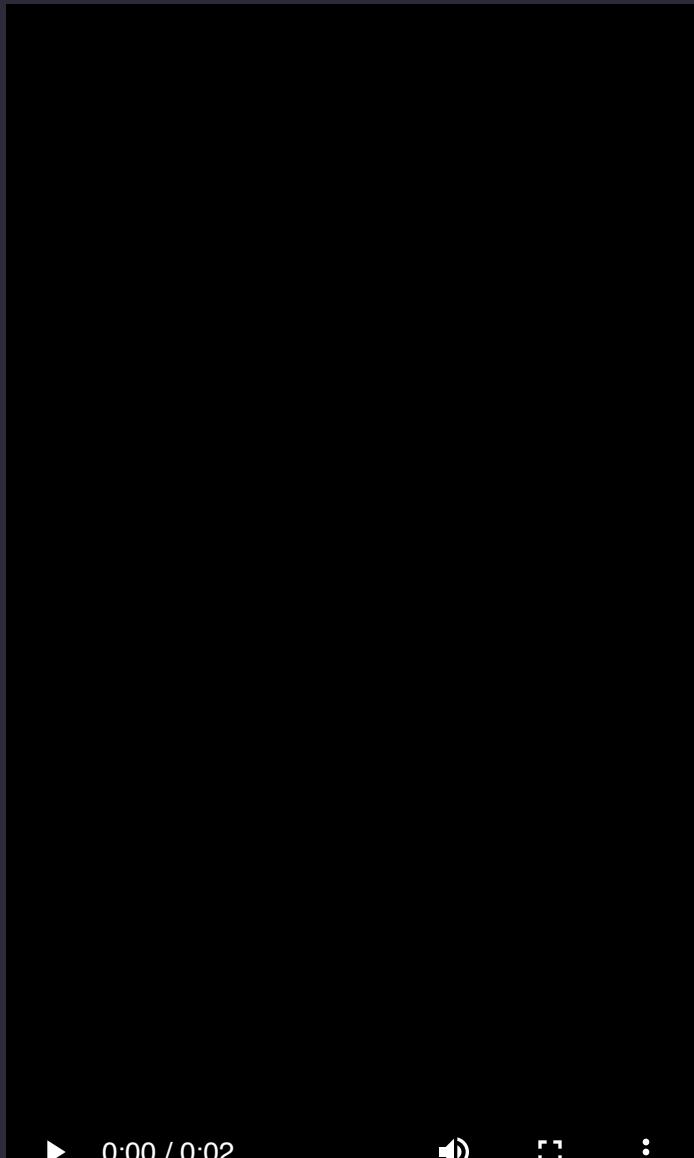
Breaking the Model





Model Development

Model Deployment



Breaking the Model



Standards Based Grading

- Students graded by learning target
 - *"I can solve projectile motion problems."*
- Scored 1-5, Weighted Average (75% Most recent, 25% everything else)
- Can initial reassessments on any standard
- Overall score is based on how many standards are mastered out of how many are assessed

Descriptor	Score
Distinguished	5
Proficient	4
Developing	3
Emerging	2
Beginning	1

Quiz Grade

✓ 2. Dynamics 6 OF 7 MASTERED

 DYN 4. 4.88/5 **MASTERED**
3 alignments

 Circ Motion Quiz
Your score: 5

5 pts Distinguished	4 pts Proficient	3 pts Developing	2 pts Emerging
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 Dyn Quiz 2
Your score: 4

5 pts Distinguished	4 pts Proficient	3 pts Developing	2 pts Emerging
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 Dynamics Quiz 1
Your score: 5

5 pts Distinguished	4 pts Proficient	3 pts Developing	2 pts Emerging
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Gradebook

Grading Period Arrange By

All Grading Periods Module Apply

Assignments Learning Mastery

< >

Category	Description	Score	Status
> 0. Scientific Practices			
7 OF 7 MASTERED			
< 1. Kinematics			
1 OF 4 MASTERED			
>	(i) KIN 3. 5 alignments	3.08/5	NOT MASTERED
>	(i) KIN 1. 5 alignments	3.08/5	NOT MASTERED
>	(i) KIN 2. 5 alignments	3.13/5	NOT MASTERED
>	(i) PMPM 1. 2 alignments	4.75/5	MASTERED

Grades Overall AP/Regents

- 5%/10% Homework
- 15%/20% Tests
- 20% Lab Completion (Lab work in Lab Notebook and Pivot Interactives)
 - Labs must be completed thoughtfully and thoroughly.
- 60%/50% Cumulative Standards Score
 - Based on # of standards Mastered out of # assessed

AP Physics vs. Regents Physics

AP Physics

- Deeper conceptual understanding and a greater use of algebraic representation
- Tests how multiple concepts are related and the effect they have on each other
- Adds in Rotational Mechanics and Dynamics

Regents Physics

- More calculation based
- Tests one concept at a time and questions are scaffolded more

AP Physics

1. Kinematics
2. Translational Dynamics
3. Work, Energy and Power
4. Conservation of Linear Momentum
5. Torque and Rotational Dynamics
6. Energy and Momentum of Rotating Systems
7. Oscillations
8. Fluids

Regents

1. Kinematics
2. Translational Dynamics
3. Work, Energy and Power
4. Conservation of Linear Momentum
5. Electrostatics
6. DC Circuits
7. Mechanical Waves
8. Electromagnetic Waves
9. Modern Physics

What questions do you have?

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Earth Science  2024-25

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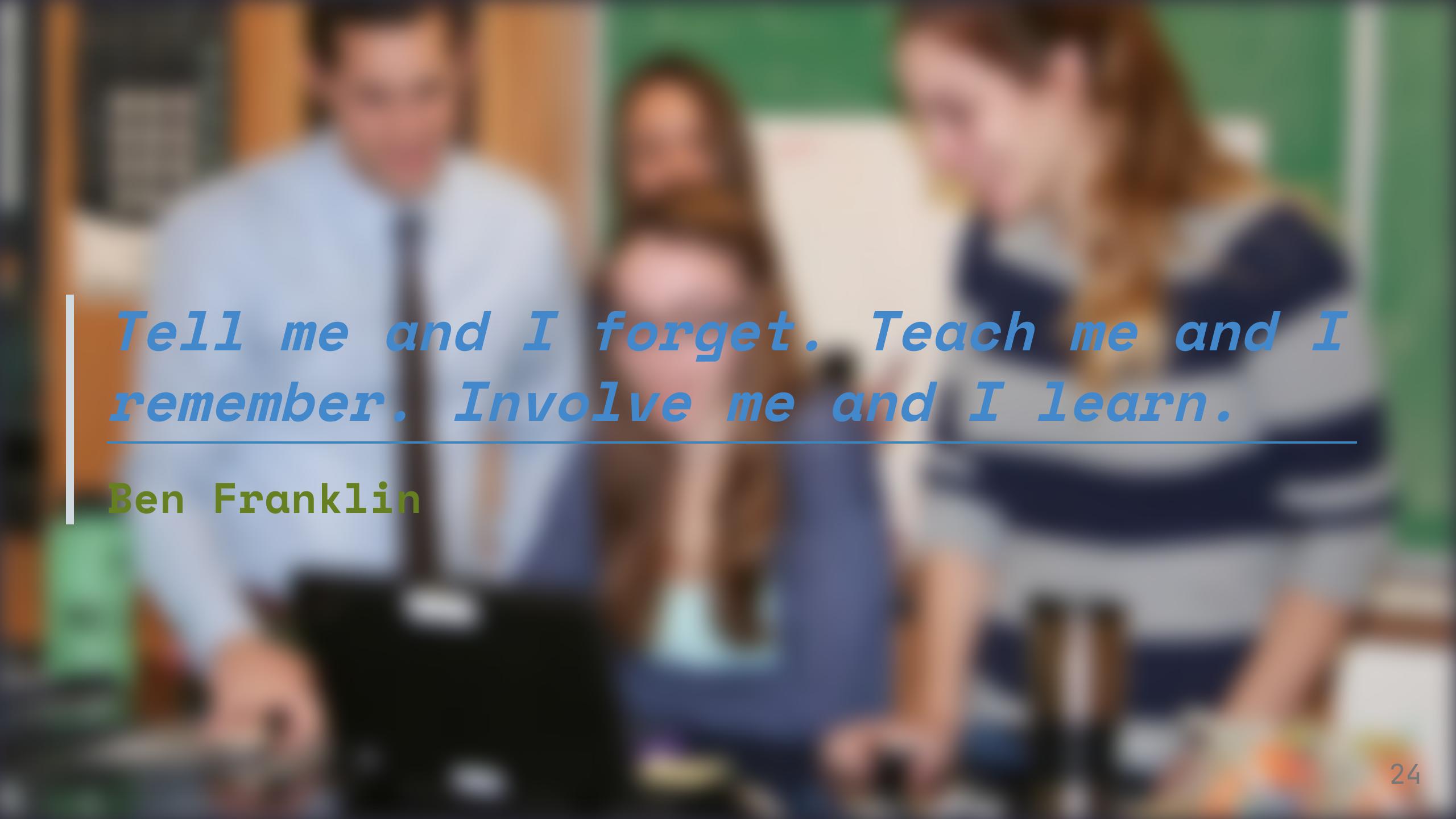




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A blurred background image of a classroom showing several students of different ethnicities sitting at their desks, facing forward. The room has green walls and various educational posters or charts visible.

Tell me and I forget. Teach me and I remember. Involve me and I learn.

Ben Franklin

What is Earth Science?

1. Space Systems
2. Earth's History
3. Earth's Systems
4. Weather & Climate
5. Human Sustainability

Transition to NYSSLS

**Earth Science Test has changed to match the
New York State Science Learning Standards**

New ESS

- Phenomena and systems driven, clusters around real-world contexts
- Shift towards scientific literacy and application

Old

- traditional test, MC & FRQ
- Classic skills such as profiles, plotting, quantitative and recall items



1



2



EARTH AND SPACE SCIENCES

The University of the State of New York
REGENTS HIGH SCHOOL EXAMINATION

EARTH AND SPACE SCIENCES

Tuesday, June 10, 2025 — 1:15 to 4:15 p.m., only

Student Name _____

School Name _____

The possession or use of any communications device is strictly prohibited when taking this examination. If you have or use any communications device, no matter how briefly, your examination will be invalidated and no score will be calculated for you.

Print your name and the name of your school on the lines above.

Use your knowledge of **Earth and Space Sciences** to answer all questions in this examination. Before you begin this examination, you must be provided with the **2024 Edition Reference Tables for Earth and Space Sciences**. You may need to use these reference tables to answer some of the questions.

Grading Policy

- Tests: 100 points (One test & One Performance Task per unit)
- Quizzes: 25-50 points (1-2 quizzes per unit)
- Labs: 25-50 points
- Homework and Classwork: 5-20 points (depending on length)

Cumulative points will determine the final grade for the course.

What questions do you have?

Contacts:

-  Encouraged to start with **ParentSquare**
-  Email: nporter@schodack.k12.ny.us